



Environmental risks are moving up clients' agendas





03 June 2015

Source: http://www.kwintessential.co.uk/cultural-services/articles/business-meeting-etiquette.html

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Key messages

- 1. The natural environment underpins the economy and hence pension schemes' financial position
- 2. Environmental risks are becoming increasingly important
- 3. Schemes are exposed to environmental risks through many routes, including supply chains and legislation
- 4. Trustees can take practical actions to mitigate environmental risks, particularly through their investment processes

Discussion

How are environmental risks relevant to pension actuaries' current and future advice?

Note: "risks" is shorthand for "risks and opportunities"



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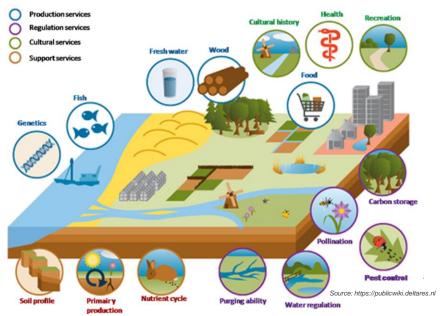


Key message 1

The natural environment underpins the economy and hence pension schemes' financial position



Economic activity relies on the environment



Managing environmental risks can improve financial performance

A recent review of sustainability research found that:

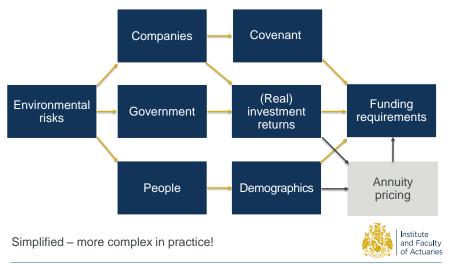
- 90% of the cost of capital studies show that sound sustainability standards lower the cost of capital.
- 88% of the studies show that solid sustainability practices result in better operational performance.
- 80% of the studies show that stock price performance is positively influenced by good sustainability practices.

Source: Clark, GL, Feiner, A, and M. Viehs. (2014) "From the Stockholder to the Stakeholder: How Sustainability Can Drive Financial Outperformance." http://papers.srn.com/sol3/papers.cfm?abstract_id=2508281



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Schemes are exposed to environmental factors through investment, covenant & demographics



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Key message 2

Environmental risks are becoming increasingly important

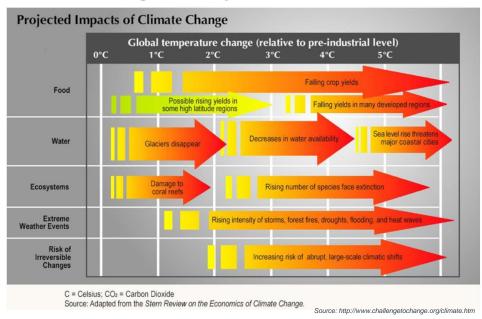


Examples of environmental risks

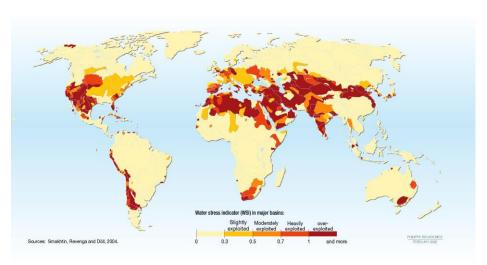


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Climate change is a major threat



Water scarcity is an increasing concern



03 June 2015 Source: http://www.unep.org/dewa/vitalwater/jpg/0222-waterstress-overuse-EN.jpg

Energy prices are uncertain and volatile

Monthly Imported Crude Oil Price



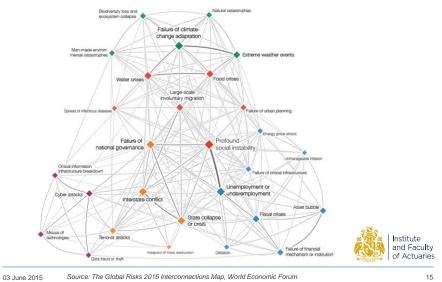


Key message 3

Schemes are exposed to environmental risks through many routes, including supply chains and legislation

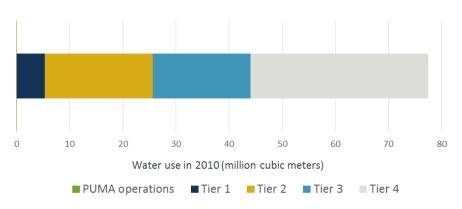


Our economic, environmental and social systems are highly interconnected



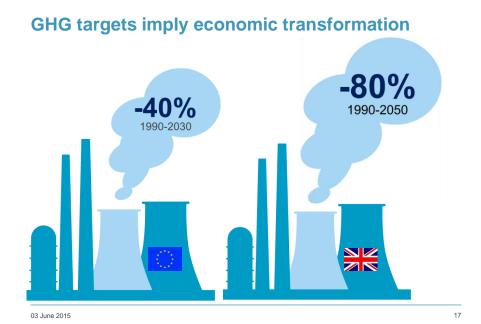
Supply chain risk exposure can be significant

Water use in Puma's supply chain



Source: PUMA's Environmental Profit and Loss Account for the year ended 31 December 2010

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Policy influences investment opportunities





03 June 2015 Source: www.un.org/esa/ffd/overview/third-conference-ffd.html

"Stranded assets" is a legislative risk



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Key message 4

Trustees can take practical actions to mitigate environmental risks, particularly through their investment processes



Responsible investment

"Responsible investment is an approach to investment that explicitly acknowledges the relevance to the investor of environmental, social and governance (ESG) factors, and the long-term health and stability of the market as a whole. It recognises that the generation of long-term sustainable returns is dependent on stable, well-functioning and well governed social, environmental and economic systems."

Source: UN Principles for Responsible Investment

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Active versus passive management



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Source: http://www.gallaudet.edu/rsia/world_deaf_information_resource.html

Stewardship

"Stewardship aims to promote the **long term** success of companies in such a way that the ultimate providers of capital also prosper. Effective stewardship benefits companies, investors and the economy as a whole."

Source: FRC Stewardship Code



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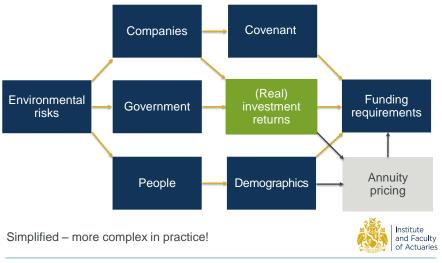
Law Commission has clarified "fiduciary duty"





03 June 2015 Source: http://lawcommission.justice.gov.uk/publications/fiduciary_duties.htm

Where can trustees take mitigating action?



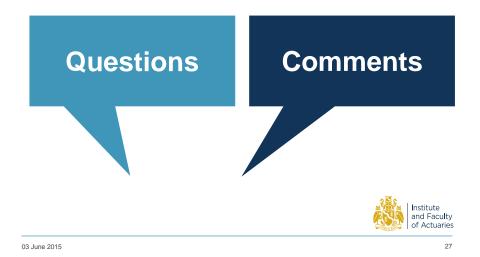
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Key messages so far

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Discussion

How are environmental risks relevant to pension actuaries' current and future advice?



Discussion

- 1. Are your clients interested in this topic? Should they be?
- 2. How are environmental risks relevant to your advice today? How might they be relevant in future?



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IFoA Resource and Environment Board

High-level objectives

- To support actuaries in the existing practice areas with resource and environment issues
- To develop the actuarial profession, enabling actuaries to work in the resource and environment area
- · To serve the public interest

Main activities

- · Cross-practice collaboration
- · Research and thought leadership
- · Public affairs
- CPD



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Key messages

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- Environmental risks are relevant to pension actuaries' current and future advice

Get involved!



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Expressions of individual views by members of the Institute and Faculty of Actuaries and its staff are encouraged.

The views expressed in this presentation are those of the presenter.



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Appendix

Sources of further information



IFoA Resource and Environment links

- Sign up to the Resource and Environment newsletter: http://www.actuaries.org.uk/practice-areas/pages/resource-and-environment-news
- Commissioned research on Limits to Growth (2013): http://www.actuaries.org.uk/members/pages/commissioned-research-limits-growth
- · Literature reviews:
 - Sustainability and the financial system (2015)
 http://www.actuaries.org.uk/sites/all/files/Sustainability%20and%20the%20Financial%20System%20Review%20of%20literature%202015%20FINAL.pdf
 - Climate change and resource depletion (2011)
 http://www.actuaries.org.uk/research-and-resources/documents/climate-change-and-resource-depletion-challenges-actuaries-review-l
 - Climate change and resource depletion (2010)
 http://www.actuaries.org.uk/research-and-resources/documents
 /climate-change-and-resource-depletion-review-literature

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Further reading

- IPCC AR5 Synthesis Report Key points and questions https://www.gov.uk/government/publications/ipcc-5th-assessment-report-synthesis-report/key-points-and-questions-ipcc-ar5-synthesis-report
- World Economic Forum Global Risks report 2015 http://www.weforum.org/reports/global-risks-report-2015
- Carbon Tracker Initiative Unburnable carbon 2013
 http://www.carbontracker.org/report/wasted-capital-and-stranded-assets/
- Kay Review UK equity markets and long-term decision-making https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/253 454/bis-12-917-kay-review-of-equity-markets-final-report.pdf
- Law Commission Fiduciary Duties of Investment Intermediaries http://lawcommission.justice.gov.uk/publications/fiduciary_duties.htm



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